NOISE AND VIBRATION SCREENING DISTANCES

APPENDIX 3.4-A NOISE AND VIBRATION SCREENING DISTANCES

Table 3.4-A-1
Noise Screening Distances for High-Speed Train (HST) Alternative

Speed			
(miles per hour)	Type of Corridor	Land Use—Ambient	Distance ¹ (feet)
≥125	Existing Rail	Urban/Noisy Suburban	450
		Quiet Suburban/Rural	900
	Existing Highway	Urban/Noisy Suburban	450
		Quiet Suburban/Rural	700
	New Rail	Urban/Noisy Suburban	450
		Quiet Suburban/Rural	900
<125	Any	Urban/Noisy Suburban	375
		Quiet Suburban/Rural	750
Station ²	Any	Urban/Noisy Suburban	225
		Quiet Suburban/Rural	450

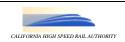
Ambient noise threshold for suburban/rural is 55 to 60 day-night average level (L_{dn}).

Table 3.4-A-2
Vibration Screening Distances for HST Alternative

Speed (miles per hour)	Receptor Type	Distance* (feet)	
≥125	Special Facilities (e.g., concert halls, research)	750	
	Residential	220	
	Institutional (e.g., schools, public buildings)	160	
<125	Category 1 (e.g., concert halls, research)	600	
	Category 2 (e.g., residences, theaters, auditoria)	200	
	Category 3 (e.g., schools, public buildings)	120	
* Measured from centerline of track.			

Table 3.4-A-3
Noise Screening Distances for Highways

Number of Lanes	Distance* (feet)	
2	242	
4	335	
6	390	
8	455	
10	510	
12	580	
14	640	
16	715	
* Measured from centerline of highway.		





¹ Measured from centerline of track.

² For a distance of 0.25 mile in either direction from center of station.